Tanz

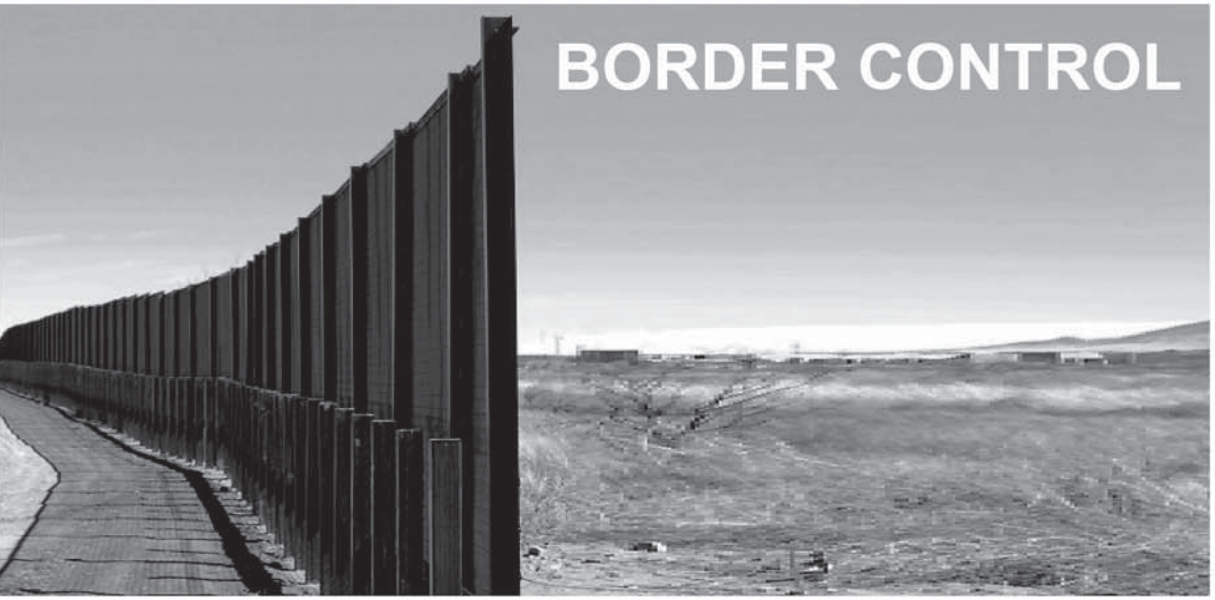
THERMAL SECURITY

homelandsecuritymilitaryindustrial

thermal professionals


MILITARY SECURITY


CRITICAL INFRASTRUCTURES

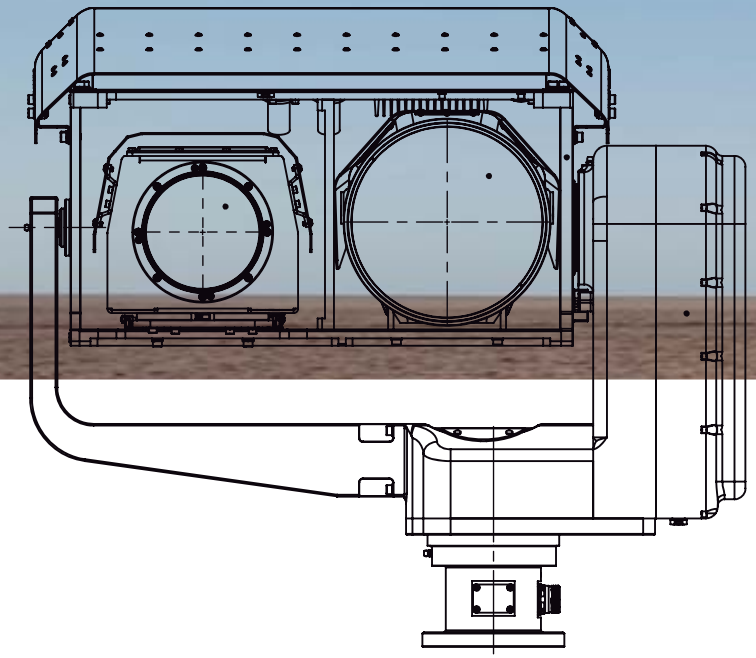

BORDER CONTROL


AIRPORT SECURITY
↑LINK52 A A→


COASTAL SECURITY

Advanced electro optical systems and solutions

Optronics > MWIR, LWIR, SWIR
Day Night > Long distance
Radars > directional and omnidirectional
Positioning systems> Stabilized, non stabilized
Long distance laser illumination
Auto-tracker
LRF
GPS, AIS, VTS
C2 Command and Control



Land
Sea
Air

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LWIR THERMAL FIXED PROFESSIONAL

Get the best image detail in challenging imaging environments with the Tanz TCIB Series thermal network camera. Tanz thermal cameras sets the industry standard for high-quality thermal security cameras.

Ideal for perimeter protection applications, capable of replacing multiple visible cameras and any additional lighting and infrastructure needed to support them.

Select different resolutions from 384x288, 640x480, 1024x768 high definition thermal image. Best performance in uncool systems and a wide range of HD lenses from 4.8mm. up to 300mm.

TCIB1 Series Thermal network cameras

Resolution: 384x288, 640x480, 1024x768
Sensor type: Amorphous Silicon
Wavelength: 8-14µm.
NETD Sensitivity: <40mk/f.1.0, 50Hz, 300K
Pixel pitch: 17µm.
Frames/Second: 30fps.
Video compression: H.264, Mjpeg, MPEG4
Video output: Digital, Analogue

Bitrate: 196Kbps - 45Mbps.
Onvif 2.5, Profile S
Network: Giga Ethernet
Alarm I/O, RS485
Power: 12vDC, POE
Motion detection
Temperature reading and alarms
Radiometric models
I/O 2/2

For outdoor applications
single or dual sensor

TCIB3 Series Thermal bullet cameras

Resolution: 384x288, 640x480
Sensor type: Amorphous Silicon
Wavelength: 8-14µm.
NETD Sensitivity: <40mk/f.1.0, 50Hz, 300K
Pixel pitch: 17µm.
Frames/Second: 30fps.
Video compression: H.264, Mjpeg, MPEG4
Video output: Digital, Analogue
Temperature measurement/Radiometric models
Temperature alarms in 10 areas
300 ROI

Bitrate: 196Kbps - 45Mbps.
Onvif 2.4, Profile S
10/100 Ethernet
Alarm I/O, RS485
Power: 12vDC, POE
Motion detection
Temperature alarms

LWIR THERMAL SINGLE AND MULTI SENSOR WITH POSITIONING

TCIS1 Series Thermal cameras

For TCIB11/TCIB12/TCIB13
Pan range: 360º endless
Tilt range: -90º/40º
Max. pan speed: 120º/Sec.
Max tilt speed: 40º/Sec.
Min. P/T speed: 0,025º/Sec.
Preset accuracy: ±0,1º
Presets: 319
Wiper, heater, glass defroster, fan
Water proof: IP66
Salt resistant
Onvif 2.5, Profile S
Inc. heavy duty aluminum casting bracket
* Suitable for lenses up to 75mm.

TCIS21 Series Thermal cameras

For TCIB11/TCIB12/TCIB13
Pan range: 360º endless
Tilt range: -90º/40º
Max. pan speed: 120º/Sec.
Max tilt speed: 40º/Sec.
Min. P/T speed: 0,025º/Sec.
Preset accuracy: ±0,1º
Presets: 319
Wiper, heater, fan
Water proof: IP66
Onvif 2.5, Profile S
* Suitable for lenses up to 300mm.

TCID1 Series Thermal cameras

For TCIB11/TCIB12/TCIB13
Pan range: 360º endless
Tilt range: -90º/40º
Max. pan speed: 120º/Sec.
Max tilt speed: 40º/Sec.
Min. P/T speed: 0,025º/Sec.
Preset accuracy: ±0,1º
Presets: 319
Wiper, heater, glass defroster, fan
Water proof: IP66
Salt resistant
Day/Night camera: 2mp. Starlight / 5mp.
Zoom: 4,3-129mm. or 10-260mm.
Onvif 2.5, Profile S
Inc. heavy duty aluminum casting bracket
* Suitable for lenses up to 50mm.

TCID2 Series Thermal cameras

For TCIB11/TCIB12/TCIB13
Pan range: 360º endless
Tilt range: -90º/40º
Max. pan speed: 120º/Sec.
Max tilt speed: 40º/Sec.
Min. P/T speed: 0,025º/Sec.
Preset accuracy: ±0,1º
Presets: 319
Wiper, heater, glass defroster, fan
Water proof: IP66
Day/Night camera: 2mp. Starlight / 5mp.
Zoom: 4,3-129mm.
Onvif 2.5, Profile S
* Suitable for lenses up to 300mm.
Optional D/N zoom 10-260mm. or 12.5-775mm.

F40 ATEX explosion proof fix housing

Suitable for TCIB1 thermal box cameras
Grid for thermal camera
Germanium window size Ø80
Casting Ex structure without welding
IP67 protection level
Electro-polished AISI 316L stainless steel

Cable outlet 1(NPT ¾")
EX Certificates IECEx / ATEX / NEPSI
Ex d IIC T6 Gb, Ex tb IIIC T85°C Db
Zone 1,2(Gas, Vapor) Zone 21,22(Dust)

PT40 ATEX explosion proof pan/tilt housing

Suitable for TCIB1 thermal box cameras
Grid for thermal camera
Germanium window size Ø80
Casting Ex structure without welding
IP67 protection level
Electro-polished AISI 316L stainless steel
Pan/tilt housing

Cable outlet 1(NPT ¾")
EX Certificates IECEx / ATEX / NEPSI
Ex d IIC T6 Gb, Ex tb IIIC T85°C Db
Zone 1,2(Gas, Vapor) Zone 21,22(Dust)

PTZR ATEX explosion proof pan/tilt housing

Suitable for TCIB1 thermal box cameras
Day/night zoom camera
Grid for thermal camera
Germanium window size Ø80
Casting Ex structure without welding
IP67 protection level
Electro-polished AISI 316L stainless steel
Pan/tilt housing

Cable outlet 1(NPT ¾")
EX Certificates IECEx / ATEX / NEPSI
Ex d IIC T6 Gb, Ex tb IIIC T85°C Db
Zone 1,2(Gas, Vapor) Zone 21,22(Dust)

TCIG1 / TCIG2 Thermal vehicle cameras

Resolution: 384x288, 640x480
Sensor type: Amorphous Silicon
Wavelength: 8-14µm.
Pixel pitch: 17µm.
NETD Sensitivity: <40mk/f.1.0, 50Hz, 300K
Frames/Second: 50/60fps.
IP67 water proof
Shock proof
Lens defroster
Pedestrian detection software (Optional)
Video output: Digital, Analogue
8" Industrial grade monitor with sunhood
Wide range working temperature: -25/80ºC.

TCIGP1 / TCIGP2 Thermal PT vehicle cameras

Resolution: 384x288, 640x480
Sensor type: Amorphous Silicon
Wavelength: 8-14µm.
Pixel pitch: 17µm.
NETD Sensitivity: <40mk/f.1.0, 50Hz, 300K
Frames/Second: 50/60fps.
IP66 water proof
Shock proof
Lens defroster
Pan/tilt unit
RS485 Joystick
Video output: Digital, Analogue
8" Industrial grade monitor with sunhood
Wide range working temperature: -25/80ºC.

* Available athermal lenses: 8, 19, 25, 35mm.

TBM12 Series LWIR Thermal binoculars

Resolution: 640x480
Sensor type: Vanadium oxide
Wavelength: 8-14µm.
Pixel pitch: 17µm.
NETD Sensitivity: <50mk/f.1.0, 50Hz, 300K
75/100mm. motorized focus
IP66 water proof
Shock proof
OLED/LCOS display
Quick start-up
High quality image
>5 hour working time/battery
Local recording video/snapshot

TBM12 Series LRF LWIR Thermal binoculars

Resolution: 640x480
Sensor type: Vanadium oxide
Wavelength: 8-14µm.
Pixel pitch: 17µm.
NETD Sensitivity: <50mk/f.1.0, 50Hz, 300K
100mm. motorized focus
GPS / GLONASS
LRF 5Km.
IP66 water proof
Shock proof
OLED display
Quick start-up
High quality image
>5 hour working time/battery
Local recording video/snapshot

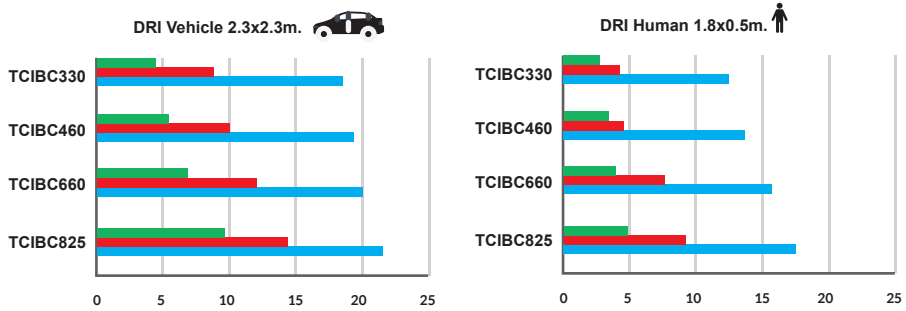
Model	Resolution	FPA	Pitch	Lens	Focus	Storage	LRF	GPS	Display
TBM12MCSNO	640x480	VOx	17µm.	100mm.	Manual	Yes	No	No	LCOS
TBM12RBONO	640x480	VOx	17µm.	75mm.	Motorized	Yes	No	No	OLED
TBM12RCONO	640x480	VOx	17µm.	100mm.	Motorized	Yes	No	No	OLED
TBM12RCOL5	640x480	VOx	17µm.	100mm.	Motorized	Yes	5Km.	Yes	OLED

MWIR THERMAL COOLED SINGLE AND MULTI SENSOR SYSTEMS FOR LAND APPLICATIONS

TCIBC Series MWIR thermal cameras

Type: MWIR 640x512 XBn FPA (HOT InSb)
Spectral range: 3,6-4,2µm.
Pixel pitch: 15µm.
Continuous optical/digital zoom: 22X / 16X
Focus: Autofocus or manual (remote)
Image stabilization: Yes
Dynamic range enhancement: Yes
MTBF Inc. cooler: 22,200 hours.
Power/consumption: 28vDC. / 35-120Watt.
Automatic window defroster: Yes
NUC: Built-in optical NUC
Video output: PAL/NTSC, H.264, ONVIF
Control: Ethernet, RS422
Waterproof: IP66 according to MIL810

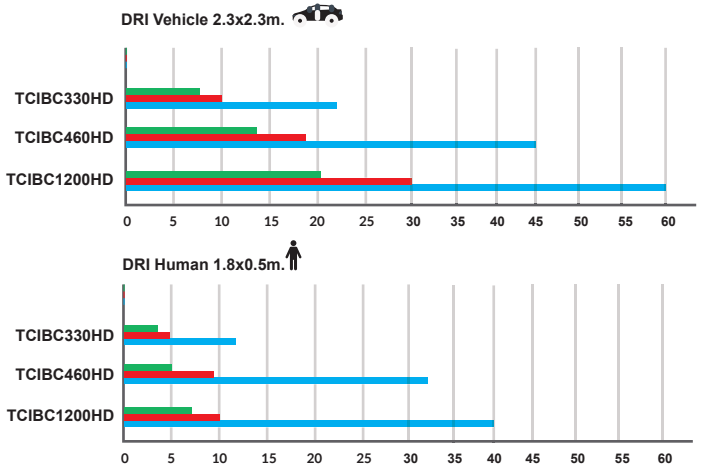
TCIBC	TCIBC330	TCIBC460	TCIBC660	TCIBC825
Lens	15-330mm.	25-460mm.	30-660mm.	40-825mm.
FOV(HxV)	1.66x1.33-35.5x28.7º	1.19x0.95/21.7x17.5º	0.83x0.66/18.2x18.6º	0.66x0.53/13x11º
IFOV	0.0453-0.99mrad.	0.0325-0.59mrad.	0.0226-0.49mrad.	0.018-0.37mrad.
Sensitivity	23mK.	23mK.	23mK.	23mK.
Weight	10Kg.	11Kg.	12Kg.	13Kg.
Size	520x220x210mm.	530x240x230mm.	540x250x240mm.	550x250x240mm.



TCIBC/HD Series MWIR thermal cameras

Type: MWIR 1280x1024 XBn FPA (HOT InSb)
Spectral range: 3,6-4,2µm.
Pixel pitch: 10µm.
Continuous optical/digital zoom: 22X / 16X
Focus: Autofocus or manual (remote)
Image stabilization: Yes
Dynamic range enhancement: Yes
MTBF Inc. cooler: 20,200 hours.
Power/consumption: 28vDC. / 35-120Watt.
Automatic window defroster: Yes
NUC: Built-in optical NUC
Video output: PAL/NTSC, H.264, ONVIF
Control: Ethernet, RS422
Waterproof: IP66 according to MIL810

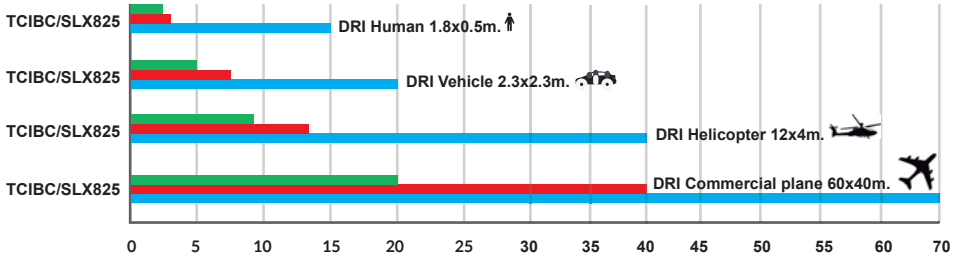
TCIBC/HD	TCIBC330HD	TCIBC460HD	TCIBC1200HD
Lens	15-330mm.	25-460mm.	57-1200mm.
FOV(HxV)	2.22x1.25/46.2x37.7º	0.81x0.65/10.4x8.36º	0.61/12.8º
IFOV	0.0303-0.66mrad.	0.011-0.14mrad.	0.011-0.14mrad.
Sensitivity	25mK.	25mK.	25mK.
Weight	13Kg.	14.5Kg.	20Kg.
Size	520x220x210mm.	530x240x230mm.	610x320x315mm.



DRI distances base in NATO Standard
Identification Recognition Detection

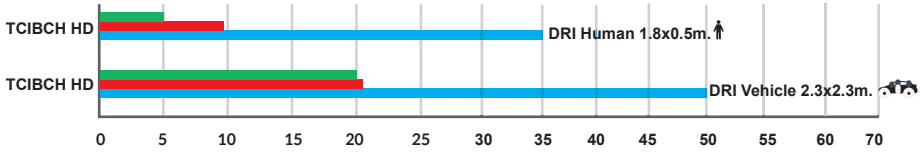
TCIBC/SLX MWIR Series thermal cameras

Type: MWIR 640x512/HD1280x720 XBn FPA (HOT InSb)
Spectral range: 3-5µm.
Pixel pitch: 15µm.
Sensitibity: 17mK.
Lens: 15-825mm.
FOV: 24X19,2-1,8X1,44º
NUC: User selectable 1,2,3 point NUC
User control: RS422
Video: 50/60Hz.
Optional: 16bit uniformity corrected dynamic range or 8 bit video
MTBF: >22,000 hours
Environmental: DEFSTAN 00-35, MIL-STD810E



TCIBCH HD Series MWIR thermal cameras

Type: MWIR 1280x720 CMT detector
Spectral range: 3,7-4,95µm.
Pixel pitch: 12µm.
NUC: Built-in reference/quadratic NUC
FOV:11x6,2-0,9x0,5º
Continuous optical zoom: 80-960mm.
E-Zoom: Interpolated (up to 8X)
Analogue video: PAL/NTSC
Digital video: Ethernet, HD-SDI
Platform: Onvif
Dynamic range enhancement: L.E.E.
Image stabilization: Yes
Turbulence mitigation: Yes
Autofocus: Yes
MTBF: Long life linear 22,200 hours
Waterproof:IP66 according to MIL810



DRI distances base in NATO Standard
Identification Recognition Detection

TCIBC825 Series MWIR thermal cameras

Type: 640 x 512 XBn FPA (HOT InSb)
Spectral range: 3.6 to 4.2 µm
Sensitibity: 23mK.
Pixel pitch: 15µm.
NUC: Built-in optical NUC
FOV: 0.66°(H)x0.53°(V) to 13.7° (H)x11.0°(V)
Continuous optical zoom: 40–825mm.
Automatic or Manual focus (remote)
Selectable FOV: 4 points
Analog (NTSC / PAL) and digital, Ethernet (H264, ONVIF)
Image stabilization: Yes
MTBF: Long life linear 20,200 hours
20Km. Laser Range Finder, Class 1 Eyesafe
GPS
Digital magnetic compass
Hardware multitracker
Waterproof: IP66 according to MIL810
Several positioning systems available

THALR Long range surveillance cameras

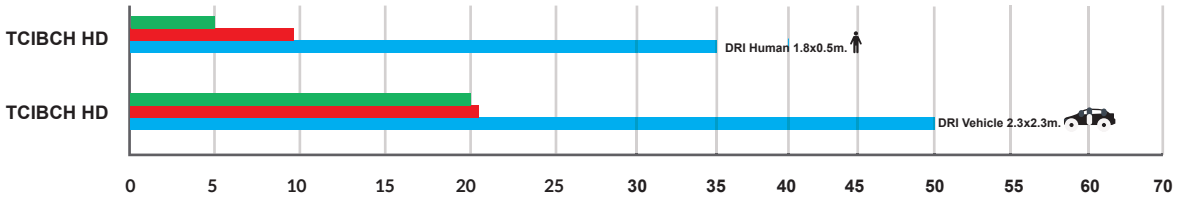
2 megapixel Long range D/N camera
1/2,3" Super low light sensor
20-750mm. continuous zoom
x2 extender 40/1500mm.
x16 digital zoom
Autofocus
Ethernet, analogue video out
H.264, MJPEG, Onvif
50dB. signal ratio
Up to 30fps. in 1080p.
Waterproof: IP66 according to MIL810

TCIBC Series	TCIBC330	TCIBC460	TCIBC660	TCIBC825
Lens	15-330mm.	25-460mm.	30-660mm.	40-825mm.
FOV (HxV)	1,66x1,33/35,5x28,7º	1,19x0,95/21,7x17,5º	0,83x0,66/18,2x18,6º	0,66x0,53/13,7x11º
IFOV	0,0453-0,99mrad.	0,0325-0,59mrad.	0,0226-0,49mrad	0,0180-0,37mrad.
Sensitivity	23mK.	23mK.	23mK.	23mK.
Weight	10Kg.	11Kg.	12Kg.	13Kg.
Size	520x220x210mm.	530x240x230mm.	540x250x240mm.	550x250x240mm.

Multi-sensor Stationary Long range

Type: MWIR 1280x720 Indium Antimonide (InSb)
Spectral range: 3,7-4,95µm.
Pixel pitch: 12µm.
NUC: Built-in reference/quadratic NUC
80-960mm. continuous zoom, autofocus
FOV: 11°×6.2° to 0.92°×0.52°
E-Zoom: Interpolated (up to 8X)
Video: Digital, PAL/NTSC
Platform: Onvif compatible
Image stabilization: Yes
Gyro stabilized gimbal
Turbulence mitigation: Yes
Video tracker, hardware
Linear Dynamic range enhancement
Image processing Tunable Digital Detail Enhancement (DDE)
Histogram Equalization
3 FOV adjustment
25Km. laser range finder
10Km. Laser illuminator 810nm. with collimator 0,5-25º
MTBF: Long life linear 35,000 hours
Waterproof: IP67 gimbal according to MIL810
Front panel wiper
TCP/IP Fiber interface video and management connection
Integration libraries for radar systems
Optional Kongsberg map engine integration

Long range Low light Color Camera in 2mp. resolution
20-2200mm continuous zoom
Min illumination 0,005 Lux/F.1,4
FOV: 0,25-26º
Optical Zoom 110x / 10x digital with 2-optical extender
Gain 0-72dB.
EIS optional
Back light compensation
Video output: Digital,analogue



Parameters: Pixel pitch = 12µm.
STANAG 4347
50% detection probability
Human target – 1.8x0.5m, 2°K
Vehicle – 2.3x2.3m, 2°K
Sigma = 0.2/82% transmission

Multi-sensor Stationary Long Range

Type: MWIR 640x480 Indium Antimonide (InSb)
Spectral range: 3,7-4,95µm.
Pixel pitch: 15µm.
NUC: Built-in reference/quadratic NUC
Continuous zoom, autofocus
FOV: 0.66°- 14°
Video: Digital, PAL/NTSC
MTBF: 35,000 hours
Platform: Onvif compatible
Image stabilization: Yes
Turbulence mitigation: Yes
Video tracker, hardware
Linear Dynamic range enhancement
Image processing Tunable Digital Detail Enhancement (DDE)
100-25,000m. laser range finder, class 1 Eyesafe
10Km. Laser illuminator 810nm. with collimator 0,5-25º
Waterproof: IP67 gimbal according to MIL810
Pan-tilt unit 360º continuous, tilt -25º to 70º
Gyro stabilized gimbal

Long range Low light Color Camera in 2mp. resolution
Focal length 1000mm. (with e-extender 2000mm.)
FOV 0,5º - 25º
50-100X continuous zoom
Min illumination 0,005 Lux/F.1,4
Optical Zoom 110x / 10x digital with 2-optical extender
Gain 0-72dB.
EIS optional
Back light compensation
Video output: Digital,analogue

TF300 Multi-sensor Long Range Marine Gimbal

Type: MWIR 640x480 Indium Antimonide (InSb)
Spectral range: 3,7-4,95µm.
Pixel pitch: 15µm.
IR lens18-275mm. lens
D/N HD 1920x1080 resolution 30X. lens
Sensor spotter 1920x1080 resolution 750mm.
4 stabilized active axis / 6 pasive axis gimbal
100mW LP optional
All sensors continuous zoom lenses
All sensors simultaneously available

Internal IMU and GPS for accurate GEO functions
Auto tracker Slew-to-cue with radar detection
Real time on-board image processing
ITAR free

TCIDPR20LRP Multi-sensor Stationary Long range

Type: MWIR 640x512 MCT
Spectral range: 3,7-4,8µm.
Pixel pitch: 15µm.
<23mK. NETD sensitivity
20X Thermal continuous zoom
30X DN continuous zoom
1.3 megapixel 1/2,8" Day/Night zoom camera
Laser Range Finder for 20Km.
GPS heading and positioining
Command and control unit platform to manage cameras and moving maps
Object tracking / Auto tracker
2 Axis high performance gyro stabilization
MIL-STD for environmental conditions / IP67
Pressurized housing with nitrogen gas
Rugged industrial PC for management
Joystick console for management
Dual monitors display
All lenses protected against salt contact

* Available models in LWIR + Day/Night camera or Day/Night cameras + 3Km. spotter light

TCIDDC330LRP Multi-sensor Stationary Long range

Type: MWIR Cooled XBn FPA (HOT InSb) sensor
640x512 resolution
Spectral range 3.6-4.2µm.
Pixel pitch15µm. pixel pitch
<23mK. NETD sensitivity
15-330mm. / FOV 35.5º-1.66º Thermal continuous zoom
2 megapixel high performance Day/Night zoom camera
30-750mm. / FOV 24.8º-0.55º Day/Night continuous zoom
Omnidirectional pulse compresion marine radar for vessel detection
True 48nm range with 3-foot open array antenna
Digital video stabilization
Object tracking
Slew to cue tracking with radar integration
2 Axis high performance gyro stabilization
MIL-STD for environmental conditions IP67
Command and control C2 platform
Rugged industrial PC for management
Joystick console for management
Dual monitor display

THALR A/B Long range surveillance cameras

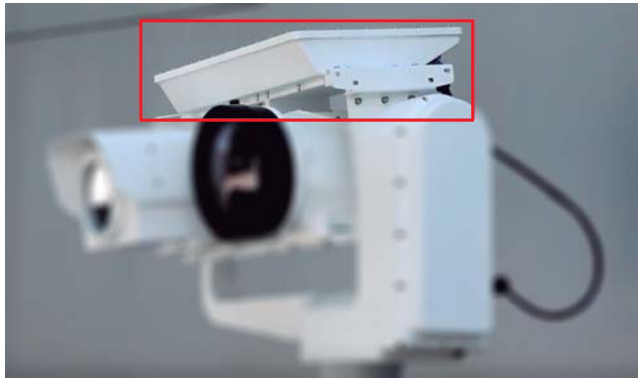
2 megapixel Long range D/N camera
High sensitivity 1/1,8" or 1/2,3" CMOS sensor
Video output: H.264, MJPEG, HD-SDI, analog
Sensitivity: Color 0,1 or 0,005 Lux
Signal noise: >50dB.
Up to 60fps./1080p. (No WDR)
Digital zoom: Up to 110x continuous
Autofocus
Electronic image stabilization or advanced stabilization
Tracking and advanced stabilization with multione option
Network protocols:TCP/IP, IPv4, TFTP, HTTP, RTSP, RTP, UDP
Waterproof: IP68 according to MIL810
Onvif compliant

THALR LONG RANGE DAY NIGHT CAMERA SERIES								
Model	**THALR2200A**	**THALR2200B**	**THALR1000A**	**THALR1000B**	**THALR750A**	**THALR750B**	**THALR375A**	**THALR375B**
Lens	20-2200mm.	20-2200mm.	20-1000mm.	20-1000mm.	20-750mm.	20-750mm.	15-375mm.	15-375mm.
NFOV	0,18º (0,09º)	0,23º (0,115º)	0,4º (0,2º)	0,5º (0,25º)	0,55º (0,28º)	0,67º (0,34º)	1,1º(0,55º)	1,34º(0,67º)
Zoom	X110	X110	X50	X50	X37,5	X37,5	X25	X25
Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video out*	1,2,3	1,2,3,4	1,2,3	1,2,3,4	1,2,3	1,2,3,4	1,2,3	1,2,3,4
FPS	60	30	60	30	60	30	60	30
ONVIF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EIS	Yes	Optional	Yes	Optional	Yes	Optional	Yes	Optional
Waterproof	IP68	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Size (mm.)	780x240x200	780x240x200	780x240x200	780x240x200	780x240x200	780x240x200	780x240x200	780x240x200
Weight	16,5Kg.	16,5Kg.	16Kg.	16Kg.	14Kg.	14Kg.	13Kg.	13Kg.

*1/H.264 2/MJPEG 3/Analog 4/HD-SDI

MWIR/SWIR/Long range D/N camera cleaning system

Pressurized water and air jet to clean and dry single/multisensor surveillance systems, specially designed to decrease maintenance cost and to keep always perfect image performance. Suitable for sea and land applications.
2 or more high pressure nozzles, depending multisensor configuration
4 or more EM control valves
20L. higher pressure distilled water reservoir
6L. high pressure air reservoir
230vAC power supply
1,5KW max consumption, while compressor running
Working temp. 0-55ºC., suitable for freezing temperature
Weight 20Kg.

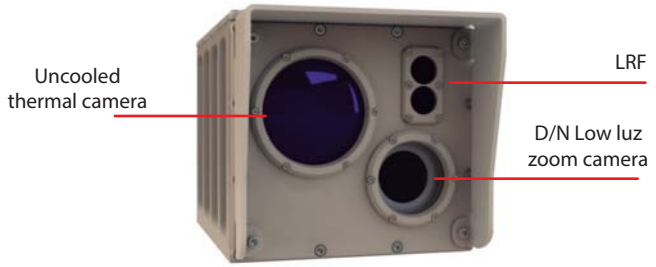


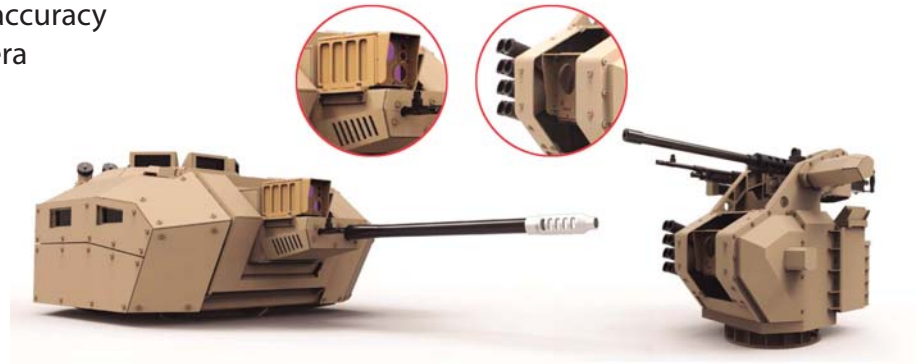
MultiOne multisensor control

Multisensor processing control unit for payloads
Onvif and dedicated protocol for video streams
H.264 video encoding for all payloads
MPEG2 TS (H.264+KLV Metadata)
MPEG4/MJPEG
Multiple streams, HD and SD resolutions
Adjustable bit-rate, image quality, fps, resolution
Video stabilization with roll correction
Jitter/Flicker control for high frequency
Video tracking, automatic track re-initialization
Track through image obstacles
Low latency
Video management: PiP, Thermal+D/N blending
Motion detection, simple track selection mode
Military grade connectors
Waterproof: IP66 according to MIL810

TCIBLW-M LWIR Unooled RCWS

Type: 640 x 512 or 640x480 Vox or a-Si
Spectral range: 8-14 µm
Sensitibity: <40mK.
Pixel pitch: 17µm.
Different lens options
2mp. D/N MIL camera
D/N camera FOV 1,7-43º
80-20,000m. LRF, Class 1 Eyesafe ±5m. accuracy
Daylight camera 1,7-43º MIL spec camera
Waterproof: IP66 according to MIL810





TCIBSW Long range short wave cameras

Type: 640 x 480 InGaAs PIN-Photodiaode
Spectral range: 0,4 to 1,7µm.
Active pixels: 640x480EIA/640x512CCIR
Pixel pitch: 15µm.
Shutter mode: Global
FPS: 25/30fps.
Noise: <195 electrones low gain, typical 176
<50 electrones high gain, typical 39
Quantum efficiency: Peak >85%
Video: H.264, MJPEG, RTSP, Onvif, analogue
Digital zoom: 16x

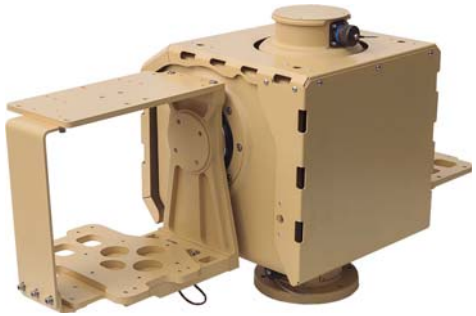
Continuous zoom	TCIBSW750	TCIBSW500	TCIBSW300
Applications	D/N W/O ilumination or night with ilumination	D/N W/O ilumination	D/N W/O ilumination
Focal length	20-750mm. F.4,6-7,3	50-500mm. F.5	30-300mm. F2,8-4,5
Spectral range	0,4 to 1,7µm.	0,4 to 1,7µm.	0,4 to 1,7µm.
Size	710x240x200mm.	610x240x200mm.	610x240x200mm.
Weight	7Kg.	7Kg.	7Kg.

TPD01 Stabilized positioning system

Load capacity/Torque: 6Kg./8Nm.
Material: Aluminum
Waterproof: IP66, optional IP67
Pan range: 360º endless
Pan axis speed: 0,001º - 30º/Sec.
Tilt axis range: -90º/40º
Tilt axis speed: 0,001º-30º/Sec.
Accuracy: 0,05º
No backlash
Dynamic brake
Stabilization ±300µRAD
Pelco D, Onvif control
Ethernet / Serial communication
GPS/GNSS receiver, optional

TPD02 Positioning system

Load capacity/Torque: 18Kg./15Nm.
Material: Aluminum
Waterproof: IP66, optional IP67
Pan range: 360º endless
Pan axis speed: 0,001º - 45º/Sec.
Tilt axis range: -40º/40º
Tilt axis speed: 0,001º-30º/Sec.
Accuracy: 0,09º
Backlash 0-0,04º
Pelco D, Onvif control
Ethernet / Serial communication



TPD03 Stabilized positioning system

Load capacity/Torque: 30kg.+30kg./60 Nm
Material: Aluminum
Waterproof: IP66, optional IP67
Pan range: 360º endless
Pan axis speed: 0,001º - 90º/Sec.
Tilt axis range: -90º/90º
Tilt axis speed: 0,001º-90º/Sec.
Accuracy: 0,05º
No backlash
Dynamic brake
Stabilization ±300µRAD
Pelco D, Onvif control
Ethernet / Serial communication
GPS/GNSS receiver, optional
Integrated Ethernet router, optional

TPD04 Stabilized positioning system

Load capacity/Torque: 50kg./60 Nm
Material: Aluminum
Waterproof: IP66, optional IP67
Pan range: 360º endless
Pan axis speed: 0,001º - 125º/Sec.
Tilt axis range: -90º/90º
Tilt axis speed: 0,001º-125º/Sec.
Accuracy: 0,05º
No backlash
Dynamic brake
Stabilization ±300µRAD
Pelco D, Onvif control
Ethernet / Serial communication
GPS/GNSS receiver, optional
Integrated Ethernet router, optional
Auto levelling

* Higher stabilization performance available

TPD05 Stabilized positioning system

Load capacity/Torque: 35Kg./60Nm.
Material: Aluminum
Waterproof: IP66, optional IP67
Pan range: 360º endless
Pan axis speed: 0,001º - 45º/Sec.
Tilt axis range: -90º/90º
Tilt axis speed: 0,001º-45º/Sec.
Accuracy: 0,02º
No backlash
Dynamic brake
Stabilization ±300µRAD
Pelco D, Onvif control
Ethernet / Serial communication
GPS/GNSS receiver, optional

TPD06 Positioning system

Load capacity/Torque: 120Kg./300Nm.
Material: Aluminum
Waterproof: IP66
Pan range: 360º endless
Pan axis speed: 0,001º - 10º/Sec.
Tilt axis range: -45º/45º
Tilt axis speed: 0,001º-10º/Sec.
Accuracy: 0,1º
No Backlash
Self lock brake
Pelco D, Onvif control
Ethernet / Serial communication

TPD07 Stabilized positioning system

Load capacity/Torque: 12kg./12 Nm
Material: Aluminum
Waterproof: IP66, optional IP67
Pan range: 360º endless
Pan axis speed: 0,001º - 65º/Sec.
Tilt axis range: -90º/90º
Tilt axis speed: 0,001º-45º/Sec.
Accuracy: 0,02º
No backlash
Stabilization ±300µRAD
Pelco D, Onvif control
Ethernet / Serial communication
Integrated target tracking algorithm
Integrated true heading and GNSS positioning
18 Ghz. high frequency joints
Precise tracking and geo-positioning

* Higher stabilization performance available

LASER RANGE FINDERS

LDC1 Laser Range Finder

Laser type: Erbium glass
Wavelength: 1,54µm.
Safety: Class 1/ IEC60825-1, ED2 2007-3
Range: 80-20,000m.
Resolution: 5m.
Accuracy: ±10m.
Extinction: 37dB.
Meassuring rate: 6pps. continuous, fast measuring
Multiple targets: 1st., 2nd. and last target
Multiple target resolution: 50m.

LDC2 Laser Range Finder

Laser type: Erbium glass
Wavelength: 1,54µm.
Safety: Class 1/ ANSI136.1-2007 / IEC60825-1
Range: 80-20,000m.
Resolution: 5m.
Accuracy: ±10m.
Extinction: 37dB.
Meassuring rate: 2pps. continuous
Multiple targets: 1st., 2nd. and last target
Multiple target resolution: 30m.

LDC3 Laser Range Finder

Laser type: Erbium glass
Wavelength: 1,54µm.
Safety: Class 1/ IEC60825-1, ED2 2007-3
Range: 200-20,000m.
Resolution: 1m.
Accuracy: ±5m.
Extinction: 43dB.
Meassuring rate: 1pps. continuous
Multiple targets: 1st., 2nd. and last target
Multiple target resolution: 30m.

LDC4 Laser Range Finder

Laser type: Erbium glass
Wavelength: 1,54µm.
Safety: Class 1/ IEC60825-1, ED2 2007-3
Range: 80-10,000m.
Resolution: 1m.
Accuracy: ±5m.
Extinction: 31dB.
Meassuring rate: 3pps. continuous, 6pps. burst/30sec.
Multiple targets: 1st., 2nd. and last target
Multiple target resolution: 30m.

LDC5 Laser Range Finder

Laser type: Erbium glass
Wavelength: 1,54µm.
Safety: Class 1/ IEC60825-1, ED2 2007-3
Range: 50-12,000m.
Resolution: 2m.
Accuracy: ±5m.
Extinction: 32dB.
Meassuring rate: 3pps. continuous, 6pps. burst/30sec.
Multiple targets: 1st., 2nd. and last target
Multiple target resolution: 30m.

Perimeter security / fence security directional radars

Type: Directional radar for fence/perimeter protection
Frequency band: C, not licences required
Detection distance:
  TAM964A-20: 400m. human / 600m. vehicle-RHIB
  TAM1000-20: 720m. human / 1000m. vehicle-RHIB
Very low power consumption, solar panel suitable
High resolution
Slew-to-cue function for pan/tilt thermal cameras
Low bandwidth requirement
IP67 waterproof
Management platform included
ONVIF compliant
Alarms integrated with major VMS brands


TAM964A-20

TAM1000-20

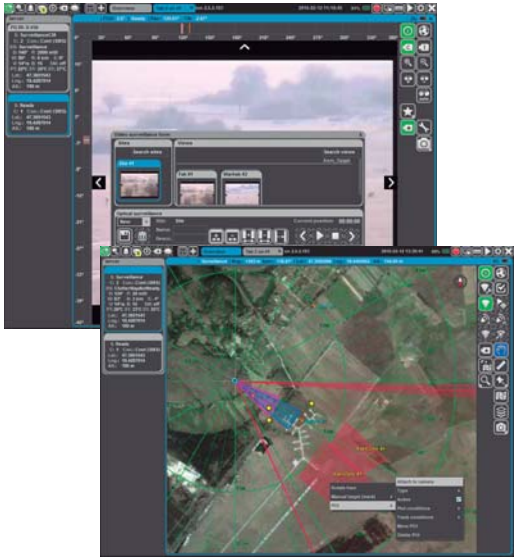

*Optional desert ready models

Midrange compact surveillance radar

Type: Wideband coherent Doppler CWLFM
Low probability interception LPI
Frequency band: Ku
Banwidth: 1Ghz.
±5º elevation control
Instrumental detection range: 5Km.
Coverage area: 78Km^2
360º Azimuth coverage
Target: Personnel and vehicles, static or moving
4500m. detection range for human
5000m. detection range for light vehicle
Scan rate: 60 rpm. configurable
Range resolution 0,2-1m. configurable
Range accuracy: 0,05-0,25m.
Gigabit Ethernet, remote operation and management

Directional ground surveillance radar

Type: FMCW
Frequency band: X (NATO I/J)
Detection: 8Km. human, 10Km. soldier, 15Km. vehicle
Scan rate: 7º-14º/Sec.
Target capacity: 10 plots/Sec.
Integrated GPS and north finding
Low radiated power
10-12 hours on 1 battery set
System weight 30Kg.



Terma SC1002 ground surveillance radar

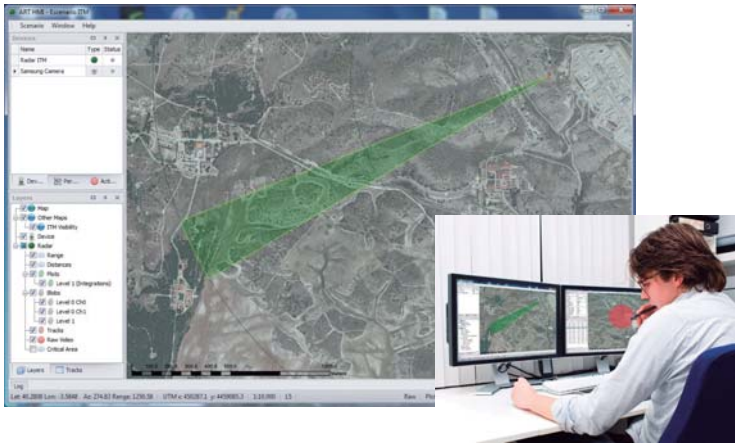
Type: Solid state technology
Frequency band: Ku
Detection range 3,7Km. human, 7,3Km. vehicle, 12Km. trucks
Instrumental detection range: 48NM.
360º Azimuth coverage
Target: Humans, vehicles, boats, slow or fast moving
Covering area: up to 452Km2
>100 Tracks
Scan rate: 12-60 rpm. configurable
Antenna elevation configurable
Network management

Midrange CS&VTS coastal surveillance radar

Type: Wideband coherent Doppler CWLFM
Low probability interception LPI
Frequency band: Ku
Banwidth: 1Ghz.
±5º elevation control
Instrumental detection range: 6 or 12NM.
360º Azimuth coverage
2 nautical miles detection range (RCS:0,5m².)
5 naultical miles detection range (RCS:0,5m².)
Scan rate: 60 rpm. configurable
Range resolution 0,2-1m. configurable
Range accuracy: 0,05-0,25m.
Vessel Traffic Services (VTS)
Inland waterway surveillance
Gigabit Ethernet, remote operation and management

Terma SC2202 marine surveillance radar

Type: 2D fully coherent pulse compresion
Frequency band: X
Target tracking, up to 70 Knots
Instrumental detection range: 48NM.
360º Azimuth coverage
Target: Vessels, RHIBS, boats, static or moving
>500 Tracks
Scan rate: 6-48 rpm. configurable
Network management



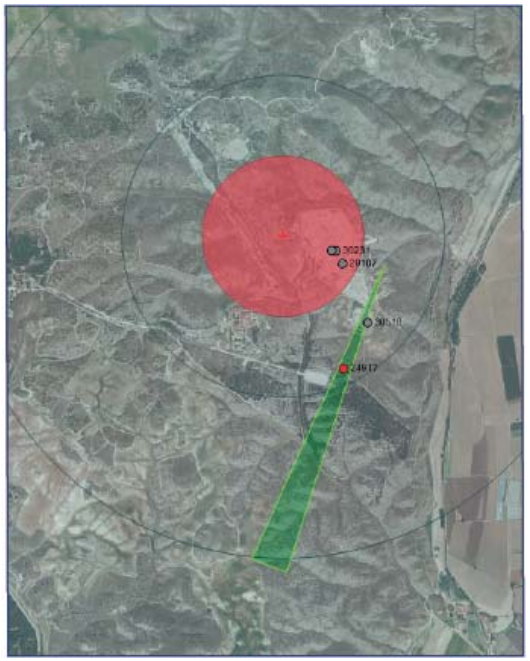
HMI Multi-Sensor Command & Control Software

Outstanding situational awareness & reaction capability radar, thermal, daylight camera
Multi-sensor data fusion
Runs on conventional desktop PCs
Integrated high performance Geographic Information System (GIS)
Modular and scalable architecture
Automatic slew-to-cue of pan & tilt with Tanz positionig systems
User definable areas / virtual fences with associated custom behaviors
EWSUP integration
“Zero training mode”, feature to calibrate and run radar by no trained staff

HMI Control software screenshots

Sensor representation: camera field of view (top) and underground sensor coverage (bottom)

Map interaction: intruder information tooltip (top) and contextual menu for threat assessment and camera control (bottom).



Sensor-camera integration: radar detected target automatically tracked by camera

RADAR-EOIR-JAMMER COMMAND AND CONTROL

Slew-to-cue function with Tanz thermal cameras

TDVRL14SD analogue video recorder

Compact desig, up to 4 thermal vehicle detectors
Able to record up to D1/120fps.
Recording up to 64Gb. in microSD card
Fully vibration proof and fan-less
3G/4G data transfer optional, GPS antenna for location
9-36v.DC ready
Wide working temperature range
Easy video data collection
Embedded VMS and video player
Analogue video output

TDVRL24SD analogue video recorder

Compact desig, up to 4 thermal vehicle detectors
Able to record up to 1080p./120fps.
Recording up to 512Gb. in microSD card
Fully vibration proof and fan-less
3G/4G data transfer optional, GPS antenna for location
9-36v.DC ready
Wide working temperature range
Easy video data collection
Embedded VMS and video player
VGA/Analogue video output

TNVRL18 network video recorder

Intel i7 CPU 8Gb. DDR4 2133MT/s,
8 channels in 1080p.
Fanless-vibration proof system
Recording in SSD, mSATA or HDD
Built-in 8 POE Giga LAN
1 Giga LAN Ethernet connection
Optional 3G/4G and GPS antenna, 8 GPIO
9-36v. DC ready
Wide working temperature range
HDMI/DVI/VGA/DP video output

* Several configuration options

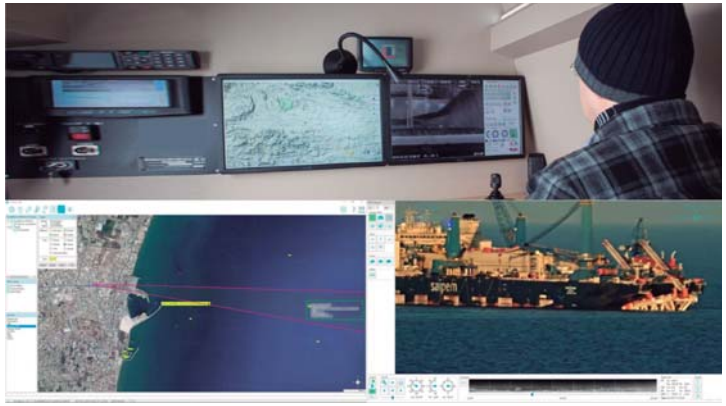
NISE3600 Rugged industrial computer

Rugged fanless industrial computer
Intel® Core™ i7-3540M
Double side 512Mx8 (4GB),Op. Temp.0-85º
1TGB, 2.5" SSD420K, SATA3, MLC, Op. Temp. 0-70º
Win10 IoT Ent LTSB 2016 MultiLang
Supports 3 independent monitors
Designed for heavy duty work
Vibration and high temperature ready

G-ST500+/4M Rugged industrial computer

Rugged fanless industrial computer
Intel® Core™ i3-i5 CPU
Tanz C2 platform preloaded
Vibration proof / working temperature extended
Multiple GIGA LAN
4x POE / Camera ports
Multiple USB3 and USB2 connectors
HDD or SSD recording

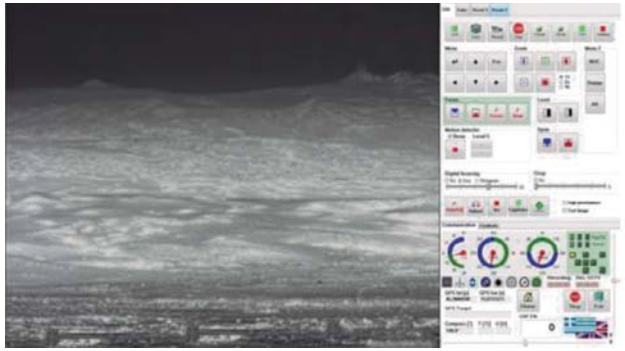
C2 COMMAND AND CONTROL PLATFORM

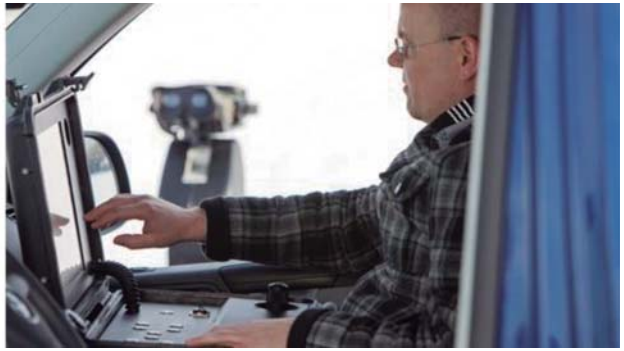


Tanz command and control platform to manage security installations

The software allow real-time monitoring of the pictures from both cameras, day / night and thermal, and according to the mode of operation selected by the operator, a single picture or picture in picture is displayed with the radar targets overlaid on the digital map on a different monitor.

New Tanz C2 **SeaLand** platform to control land-sea and sea-sea systems, now including powerful Kongsberg GIS modules and dynamic map engines to control any moving item and represent it in military or marine cartography having AIS support.





System is able to control different systems connected to the platform, such as:

- Thermal cameras
- Day/Night cameras
- Positioning systems
- LRFs

Supporting data from:

- AIS
- Radar (ARPA)
- GIS

C2 Command and Control platform

C2 SeaLand Command and Control platform

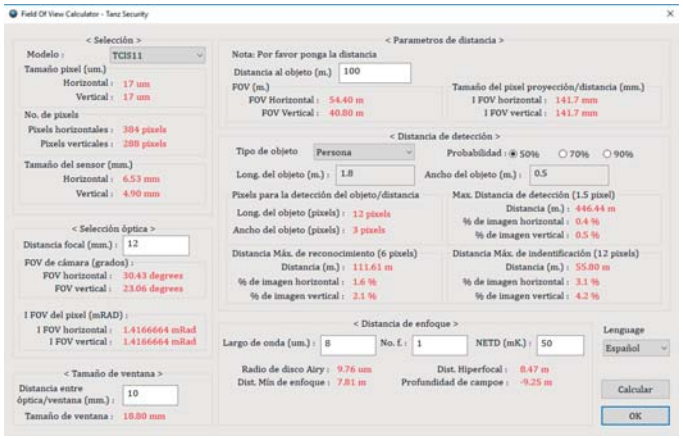
- Multiple layer support
- Different symbols for target types (Person, Vehicle, etc.)
- AIS targets
- Target position and data (observation angle, direction) overlaid on a map
- Target tracking Objects:
  - RHIBs
  - Small objects
  - Vessels
  - People tracking
  - Vehicle tracking
  - UAV, helicopter tracking
- Dynamic camera settings (zoom/focus)

SRC | Blighter | FURUNO | SIMRAD | TERMA | FLIR

All MWIR, SWIR, Long range day/night cameras and positioning systems are integrated with listed radars

Tanz VMS for thermal and network camera management

Tanz thermal cameras include a powerful server-client VMS for thermal and network camera control
Onvif support VMS
PTZ control for thermal positioing systems and network PTZ cameras
High performance system and high definition recording
Windows base system
VMS able to handle over 1000 channels in up to 4K definition
Including TV wall capability



FOV calculator for thermal cameras

Tanz FOV calculator helps to user to understand the visual range of lenses in thermal cameras
Supporting all Tanz thermal cameras and available lenses
Accurate information data for DRI (Detection, recognition, identification
Probability data for 50/70/90% following NATO standard
Different object dimension selection

Advanced video analysis for thermal and network cameras

Tanz provides different professional video analysis for thermal cameras
Analytic software with dedicated algorithms for thermal cameras
Windows base analytics for high performance and low false alarm ration
Proven analytics in several demanding installations
iLIDS certified by UK Government

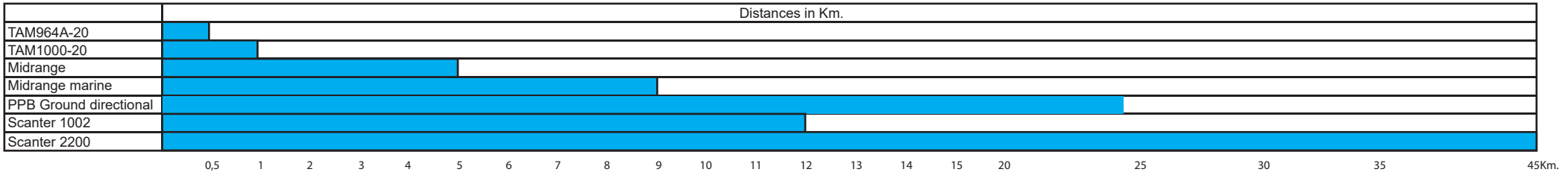
VIDEOLOGIC DAVANTIS Omniscient

LENS DETECTION / RECOGNITION / IDENTIFICATION RANGE DISTANCES FOR LWIR SYSTEMS & RADARS

Performance may vary based on environmental conditions, topography, monitor setup, operator experience, camera settings, and camera configuration.
* Not suitable lenses for 1024x768 resolution.
** TCID1 Camera series max. focal length 50mm.

Identification
Recognition
Detection

Human size 1.8x0.5m.
Vehicle size 2.3x2.3m.
Probability: 50%



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